



# AEROTECH

## LED MICRO | MINI BAR

EN



## Instructions, Specification and Warranty Details

P/Nos. AERO-85015X, 85016X, 85017X, 85019X



\*X signifies the color eg.  
AERO-85015A = Amber

### **WARNING**



**Read carefully and understand all instructions before operating.**

- It is not recommended to use magnetically mounted warning devices on the outside of a vehicle in motion. Usage is at the sole risk and responsibility of the user.
- Risk of electrical shock; do not use in an environment with gas, combustible or explosive materials, or hot objects.
- Do not open, repair or modify.
- Use only under the recommended voltage and frequency requirements.
- Do not look directly at the light, as this will result in dazzling.
- Minimum distance from lighted objects 0.1m.
- The specification in this manual is based on standard lab testing, different environments may influence the data.
- **California Proposition 65 Warning:** This product contains chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information, please visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### **FEATURES**

- Aerodynamic shape for reduced wind noise in high speed applications.
- Selectable Day/Night mode.
- 10-80V multi-volt DC input to suit most applications.
- Versatile mounting options.
- Allows synchronisation of up to 6 units
- Virtually unbreakable polycarbonate lens and base.
- SAE and ECE approved.

## **PRE-INSTALLATION**

To prevent damage to the light box and vehicle carefully plan mounting position for the light box, cable and controlling equipment:

1. Pre-configure desired light box flash pattern prior to hard wiring
2. Determine:
  - the location to mount the light box.
  - the location to route the light box cable.
3. Separate all electronic equipment wiring from two-way radio equipment wiring.
4. To avoid interference, keep two-way radio antennas a minimum of 50cm away from warning equipment.

## **WIRING & INSTALLATION (MAGNETIC MOUNT AERO-85016X)**

To power the magnetic mount LED light box, connect the supplied cigarette lighter plug lead into the vehicle's cigarette lighter socket and press the ON/OFF button.



## **CHANGING FLASH PATTERNS (AERO-85016X)**

The magnetic mount LED light box features a flash pattern selection switch located on the cigarette lighter plug. To change the flash pattern, push the flash pattern button once.



## **HIGH/LOW POWER MODES (AERO-85016X)**

In many applications High Power mode can be too bright at night. To change power mode, hold the flash pattern button for more than 5 seconds.

## WIRING & INSTALLATION

**(FLANGE MOUNT P/Nos. AERO-85015X, AERO-85017X, AERO-85019X)**

Different applications require different flash patterns. It is highly recommended to determine and configure the required flash pattern prior to installation.



- RED:** Connect to +VDC (fuse @ 8A)
- BLACK:** Connect to Chassis Ground (-)
- WHITE:** Connect to White wire on second unit to synchronise flash pattern
- YELLOW:** Flash Patterns Change  
Momentarily apply +VDC to YELLOW
- GREY:** Connect to +VDC for low power
- BLUE:** Colour 2 (When dual colour) +VDC

## CHANGING FLASH PATTERNS

**(P/Nos. AERO-85015X, AERO-85017X, AERO-85019X)**

The flange mount L.E.D light box features a flash pattern selection wire (yellow). Touch the YELLOW wire once to the negative supply to change the flash pattern.

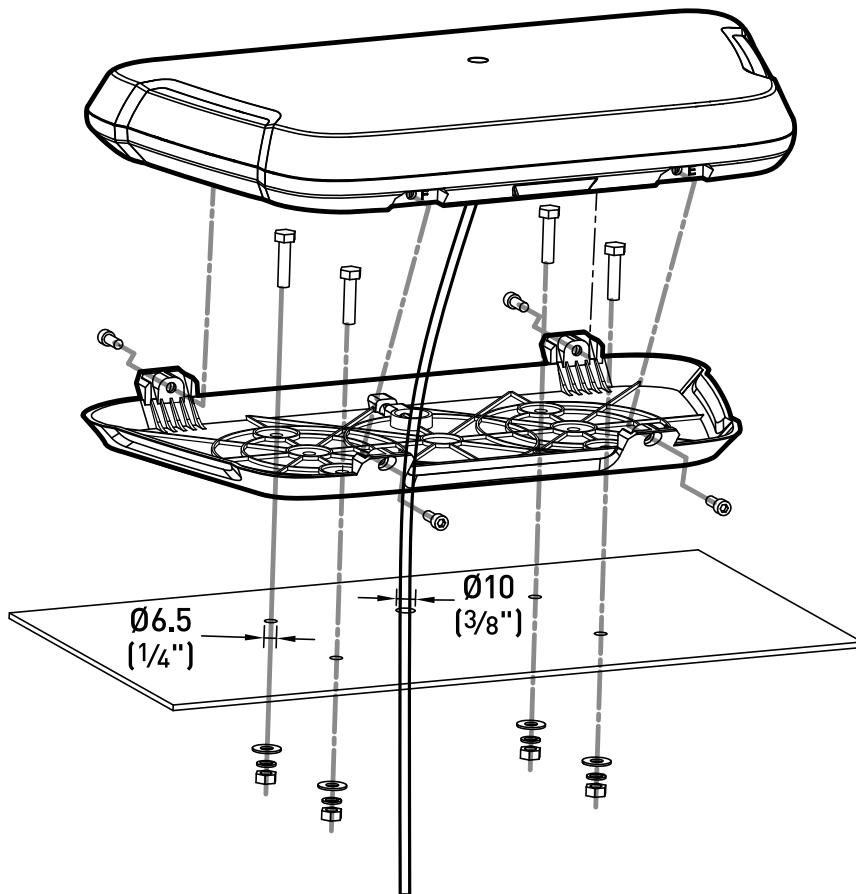
## FLASH PATTERN FUNCTIONS

Flash Pattern No.	Flash Patterns	
1	Double Flash (SAE, ECE TA2)	
2	Ultra (alternating flash)	<div>LEFT </div> <div>RIGHT </div>
3	Ultra (cross flash)	<div>FRONT </div> <div>REAR </div>
4	Rotate	
5	Quint	
6	Double Rotate*	
7	Steady On	

\*Rotates on two sides of the light box

## CRADLE MOUNT

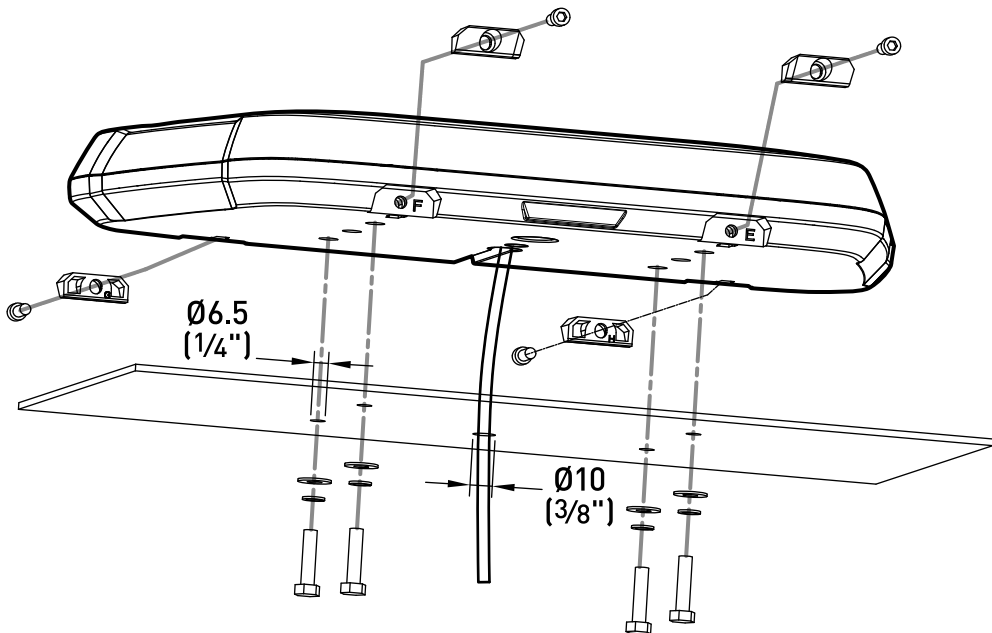
- 1** Prepare a suitable area on the vehicle's surface by wiping it clean to prevent scratching.
- 2** Drill a 10mm hole into the surface for the wires to exit through for connection to a power source. Alternatively, the wires can be directed through the side of lamp's base for connection to a power source.
- 3** Using the supplied lamp gasket as a template, drill 6.5mm holes for fitment and secure to the surface using the supplied mounting bolts. A mounting pad is included and can be installed between the surface and the lamp.
- 4** Mount the cradle to the vehicle, make sure the cable is routed in the correct orientation (through the mounting surface or via the cable exit).
- 5** Attached the lamp to the cradle via the 4 bolts with supplied allen key.
- 6** Route the wires as planned in step 2. Connect the red (+) wire to 10–80V DC and the black (-) wire to ground. Test.



## ***DIRECT MOUNT***

Perform step 1 and 2 (if required).

- 3** Using the supplied lamp gasket as a template, drill 6.5mm holes for fitment and install using supplied screws from below which fit directly into the nutserts of the light box.
- 4** Mount the cradle to the vehicle, by installing bolts from underneath into the nutserts on the light box. Make sure the cable is routed in the correct orientation (through the mounting surface or via the cable exit).
- 5** Route the wires as planned in step 2. Connect the red (+) wire to 10–80V DC and the black (-) wire to ground. Test.



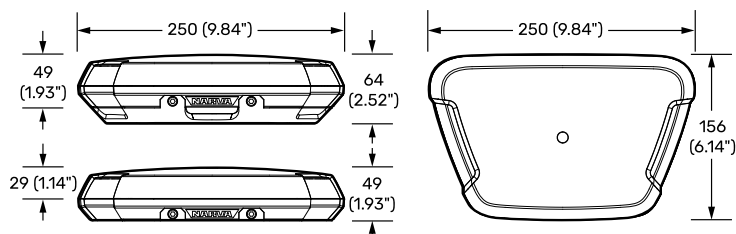
## TECHNICAL SPECIFICATIONS

	AERO-85015/16A	AERO-85017A	AERO-85019A
LED	54 X 1.5W	84 x 1.5W	168 x 1.5W
Housing Material	Polycarbonate Base		
Lens Material	Polycarbonate		
Mounting	Cradle/No Cradle		
Voltage	10-80V DC		
Amperage @ 12V	1.7A Rotate / 3.5A Flash	2.1A Rotate / 3.7A Flash	2.0A Rotate / 4.3A Flash
Wattage	81W	126W	252W
Operating Temp.	-22°F to +140°F (-30°C to +60°C)		
Weight	1.9kg / 4.2lbs	1.9kg / 4.2lbs	2.06kg / 4.55lbs
Width	250mm / 9.84"	380mm / 14.96"	
Height	64mm / 2.52"	67mm / 2.63"	89mm / 3.5"
Depth	156mm / 6.14"	200mm / 7.87"	
Shock/Vibration	ISO 16750-3, MIL-STD-810G		
Approvals	CE, ROHS, REACH		
IP Rating	IP-67, IP-69K		
ECE Approval	ECE R65 TA2*		
EMC Compliance	CISPR25 Class 3, ECE R10		
SAE Compliance	J845 Class 1, W3-1		

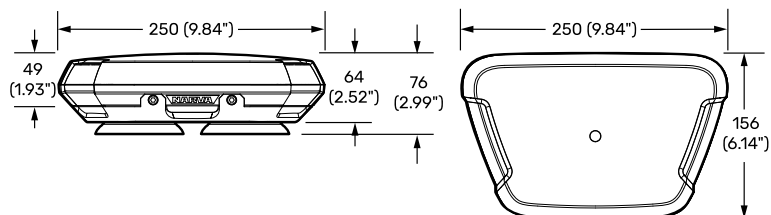
\*Clear lens version only on AERO-85015/16AC

## DIMENSIONS

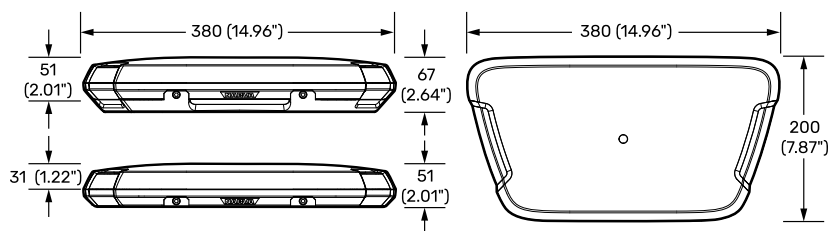
### AERO-85015X



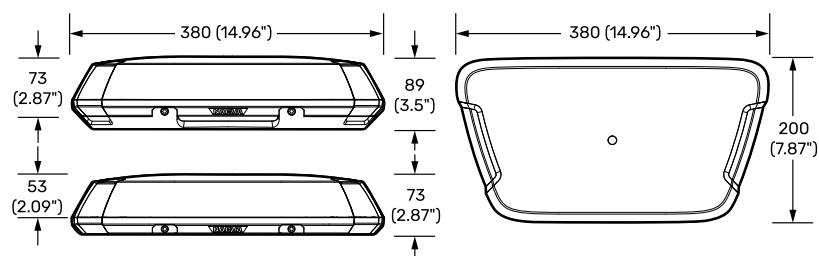
### AERO-85016X



### AERO-85017X



### AERO-85019X



## **WARRANTY TERMS & CONDITIONS:**

1. Warranty items will be replaced or repaired to working condition and returned without cosmetic alterations.
2. A proof of purchase is required to validate all warranty claims. The warranty period is valid starting from the original date of purchase.
3. All products must have been purchased through a Vision X Authorized Dealer/Reseller to be eligible for warranty.
4. Damage resulting from any improper installation, accident, abuse, neglect or normal wear are not covered under warranty.
5. Any product used in mining applications is warranted for one year only.
6. Actions which void the warranty include:
  - a. Opening of the lighting fixture
  - b. Cutting any connectors or cords
  - c. Broken Glass
  - d. Damage caused by physical abuse
  - e. Lights operated in environments outside their stated specifications\*
7. All customer warranties should be handled through the Dealer/Reseller the product was originally purchased from. The customer is responsible for delivery to the Vision X Returns in Auburn, Washington.
8. If a product is deemed not covered under warranty, customer will be responsible for the return shipping charges.
9. Items not covered under warranty can be repaired at the customer's expense for parts and labor, at the discretion of Vision X Lighting, who will provide an estimated repair cost before proceeding with the repair.

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